

Enbeam OM3 Multimode 50/125 4 Core Fibre Optic Cable Loose Tube Dca - Black

Item Code: 200-150



X Duct grade rodent resistant

X Sequentially metre marked

X 1500/500MHz.km bandwidth

X Cut to length service

X 25 Year system warranty

X Euroclass Dca-s2-d0-a1

Product overview

Excel OM3 50/125µm loose tube optical fibre cables have been designed specifically for internal and external applications. These compact, lightweight cables are extremely flexible and are quick and easy to install.

The cables are constructed around a gel filled (non-dripping and silicon free) tube containing up to 24 colour coded 250µm primary coated fibres. This tube is covered with an E-Glass strength member.

The print legend on the cable now includes information regarding the DOP number, Test and Classification of the cable for traceability. □□

Product specifications

| Features | Values |
|--|---------------------------------|
| Number of Cores | 4 |
| Type of tube | Loose tube |
| Number of fibres per tube | 4 |
| Fibre type | Multi mode 50/125 |
| Category | OM3 |
| Armouring | no |
| Rodent resistant | yes |
| Outer sheath material | Copolymer, thermoplastic (LS0H) |
| Outer sheath colour | Black |
| Reaction-to-fire class according to EN 13501-6 | Dca |

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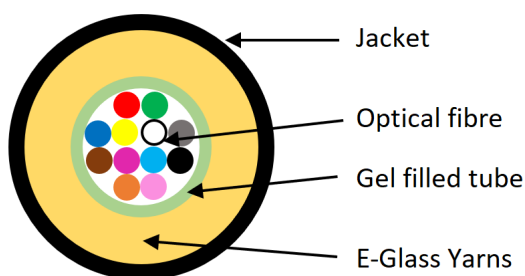
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| Features | Values |
|---|-----------------------------|
| Smoke development class according to EN 13501-6 | s2 |
| Euro class flaming droplets/particles according to EN 13501-6 | d0 |
| Euro class acidity according to EN 13501-6 | a1 |
| Halogen free (acc. EN 60754-1/2) | yes |
| Flame retardant | In accordance with EN 50399 |
| Low smoke (acc. BS EN 61034-2) | yes |
| Outer diameter approx. | 6 mm |

Cross-section diagram



Cable specifications

| Features | Values |
|---|---------------------------|
| Strength members | E-Glass Yarns |
| Tensile Strength (during installation/installed) | 1000N/300N |
| Impact | 1J |
| Crush resistance (during installation/installed) | 1000N/300N |
| Torsion | 5 cycles +/- 1 turn |
| Kink | 100mm min. |
| Temperature range (during installation/installed) | -30° to +60°C |
| Temperature range (storage) | -40° to +60°C |
| Weight (4-16 cores) | Approx. 40kg/km |
| Weight (24 cores) | Approx. 45kg/km |
| Tube diameter (4-16 cores) | 2.8mm±0.1mm |
| Tube diameter (24 cores) | 3.5mm±0.20mm |
| Maximum bend radius (during installation/installed) | 20x cable OD/10x cable OD |
| Sheath thickness | Typical 1.1mm |

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| Features | Values |
|-------------------|----------------------|
| Water Penetration | No water on free end |

Fibre specifications

| Features | Values | @850nm | @1300nm |
|----------------------------|-------------|-------------|------------|
| Core diameter | 50±2.5um | | |
| Cladding diameter | 125.0±1.0um | | |
| Primary Coating diameter | 250±15um | | |
| Max. attenuation | | 3.0 dB/km | 1.0 dB/km |
| Refractive Index | | 1.482 | 1.477 |
| Numerical aperture | 0.200±0.015 | | |
| Overfilled Modal Bandwidth | | 1500 MHz/km | 500 MHz.km |

Standards

| Applicable standard | Subject |
|--------------------------|--|
| IEC 60794-2-20:2013 | Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables |
| IEC 60332-1-2:2004 | Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame |
| IEC 60754-2:2011 | Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity |
| IEC 61034-2:2005+A1:2013 | Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements |
| IEC 60793-1-1:2017 | Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance |
| IEC 60793-2-10:2017 | Sectional specification for A1 multimode fibres |
| IEC 60793-1-20:2014 | Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry |
| IEC 60793-1-21:2001 | Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry |
| IEC 60793-1-22:2001 | Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement |
| IEC 60793-1-30:2010 | Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test |

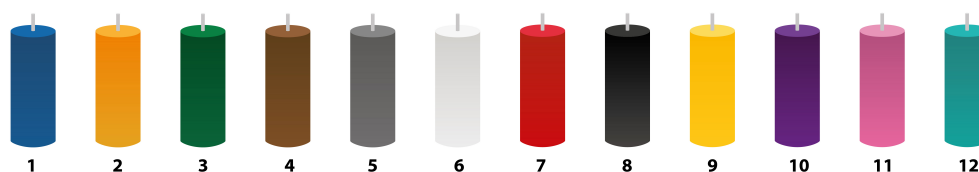
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| Applicable standard | Subject |
|---------------------------|---|
| ITU G.651.1 | Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network |
| EN 50173-1:2011 | Information technology. Generic cabling systems - General requirements |
| EN 50575: 2014 + A1: 2016 | Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements |
| EN 50399:2011+A1:2016 | Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results |
| ISO/IEC 11801-1:2017 | Information technology - Generic cabling for customer premises: Part 1 General Requirements |
| ANSI/TIA 568-3.D | Optical Fiber Cabling and Components Standard |
| ANSI/TIA/EIA 598-D | Optical Fibre Cable Colour Coding |
| RoHS | Restriction of Hazardous Substances - Compliant |



For fibre core counts above 12 the colour sequence is repeated with the addition of a mark every 70mm for cores 13-24 and two marks for 25-36 and so on.

Part number table

| Part Number | Description |
|-------------|--|
| 200-149 | Enbeam OM3 Multimode 50/125 6 Core Fibre Optic Cable Loose Tube Dca - Black |
| 200-150 | Enbeam OM3 Multimode 50/125 4 Core Fibre Optic Cable Loose Tube Dca - Black |
| 200-151 | Enbeam OM3 Multimode 50/125 8 Core Fibre Optic Cable Loose Tube Dca - Black |
| 200-152 | Enbeam OM3 Multimode 50/125 12 Core Fibre Optic Cable Loose Tube Dca - Black |
| 200-153 | Enbeam OM3 Multimode 50/125 16 Core Fibre Optic Cable Loose Tube Dca - Black |
| 200-154 | Enbeam OM3 Multimode 50/125 24 Core Fibre Optic Cable Loose Tube Dca - Black |

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Contact us at sales@excel-networking.com



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